

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/190,246DATE: 02/01/2000
TIME: 14:24:12

Input Set: I190246.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

```
1 <110> APPLICANT: Parrington, Mark
2   Li, Xiaomao
3   Klein, Michel
4 <120> TITLE OF INVENTION: ALPHAVIRUS VECTORS FOR PARAMYXOVIRUS VACCINES
5 <130> FILE REFERENCE: Parrington et al.
6 <140> CURRENT APPLICATION NUMBER: US/09/190,246
7 <141> CURRENT FILING DATE: 1998-11-13
8 <160> NUMBER OF SEQ ID NOS: 7
9 <170> SOFTWARE: PatentIn Ver. 2.0
10 <210> SEQ ID NO 1
11 <211> LENGTH: 15538
12 <212> TYPE: DNA
13 <213> ORGANISM: Semliki Forest virus
14 <400> SEQUENCE: 1
15   tcgcgcgttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccg gagacgggtca 60
16   cagcttgtct gtaagcggat gccgggagca gacaagcccg tcaggcgcg tcagcgggtg 120
17   ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc 180
18   accatatgcg gtgtgaaata ccgcacagat gcgtaaggag aaaataccgc atcagattgg 240
19   ctattggcca ttgcatacgt tgtatccata tcataatatg tacatttata ttggctcatg 300
20   tccaacatta ccgccatgtt gacattgatt attgactagt tattaatagt aatcaattac 360
21   ggggtcatta gttcatagcc catatatgga gttccgcgtt acataactta cggtaaattg 420
22   cccgcctggc tgaccgcccc acgacccccg cccattgacg tcaataatga cgtatgttcc 480
23   catagtaacg ccaataggga ctttccattg acgtcaatgg gtggagtatt tacggtaaac 540
24   tgcccacttg gcagtacatc aagtgtatca tatgccagt acgcccccta ttgacgtcaa 600
25   tgacggtaaa tggcccgctt ggcattatgc ccagtacatg accttatggg actttcctac 660
26   ttggcagtac atctacgtat tagtcatcgc tattaccatg gtgatgcggt tttggcagta 720
27   catcaatggg cgtggatagc ggtttgactc acggggattt ccaagtctcc accccattga 780
28   cgtcaatggg agtttgtttt ggcacaaaaa tcaacgggac tttccaaaat gtcgtaacaa 840
29   ctccgcccc a ttgacgcaa tgggcggtag gcgtgtacgg tgggagggtct atataagcag 900
30   agtcggttta gtgaaccgtc agatcgcttg gagacgccat ccacgctgtt ttgacctcca 960
31   tagaagacac cgggaccgat ccagcctccg cggccgggaa cggtgcatgt gaacgcggat 1020
32   tccccgtgcc aagagtgcg taagtaccgc ctatagactc tataggcaca cccctttggc 1080
33   tcttatgcat gctatactgt ttttggcttg gggcctatac acccccgctt ccttatgcta 1140
34   taggtgatgg tatagcttag cctatagggtg tgggttattg accattattg accactcccc 1200
35   tattgggtgac gatactttcc attactaatc cataacatgg ctctttgcca caactatctc 1260
36   tattggctat atgccaatac tctgtccttc agagactgac acggactctg tattttttaca 1320
37   ggatgggggtc ccatttatta ttacaaatt cacatatata acaacgcgt ccccgctgcc 1380
38   cgcagttttt attaaacata gcgtgggatc tccacgcgaa tctcgggtac gtgttccgga 1440
39   catgggtctt tct'ccggtag cggcgagct tccacatccg agccctggtc ccatgcctcc 1500
40   agcggctcat ggtcgctcgg cagctccttg ctctaacag tggaggccag acttaggcac 1560
41   agcacaatgc ccaccaccac cagtgtgccg cacaaggccg tggcggtagg gtatgtgtct 1620
42   gaaaatgagc gtggagattg ggctcgacg gctgacgcag atggaagact taaggcagcg 1680
43   gcagaagaag atgcaggcag ctgagttgtt gtattctgat aagagtcaga ggtaactccc 1740
44   gttgcggtgc tgttaacggt ggagggcagt gtagtctgag cagtactcgt tgctgccgcg 1800
```

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/190,246

DATE: 02/01/2000
TIME: 14:24:12

Input Set: I190246.RAW

45	cgcgccacca	gacataatag	ctgacagact	aacagactgt	tcctttccat	gggtcttttc	1860
46	cgatcctgag	aacttcaggg	tgagtttggg	gacccttgat	tgttctttct	ttttcgctat	1920
47	tgtaaaattc	atgttatatg	gagggggcaa	agttttcagg	gtgttggtta	gaatgggaag	1980
48	atgtcccttg	tatcaccatg	gaccctcatg	ataattttgt	ttctttcact	ttctactctg	2040
49	ttgacaacca	ttgtctcttc	ttattttctt	ttcattttct	gtaacttttt	cgtaaactt	2100
50	tagcttgcat	ttgtaacgaa	tttttaaatt	cacttttggt	tatttgtcag	attgtaagta	2160
51	ctttctctaa	tcactttttt	ttcaaggcaa	tcagggtata	ttatattgta	cttcagcaca	2220
52	gttttagaga	acaattgtta	taattaaatg	ataaggtaga	atattttctgc	atataaattc	2280
53	tggctggcgt	ggaaatattc	ttattggtag	aaacaactac	atcctggtca	tcactcctgcc	2340
54	tttctcttta	tggttacaat	gatatacact	gtttgagatg	aggataaaat	actctgagtc	2400
55	caaaccgggc	ccctctgcta	accatgttca	tgcttctctc	tttttctctac	agctcctggg	2460
56	caacgtgctg	gttattgtgc	tgtctcatca	ttttggcaaa	gaattgtaat	acgactcact	2520
57	atagggcgaa	ttgtcaccgt	cgctgacatg	gcggatgtgt	gacatacacg	acgcaaaaag	2580
58	attttggtcc	agctcctgcc	acctccgcta	cgcgagagat	taaccaccca	cgatggccgc	2640
59	caaagtgcac	gttgatattg	aggctgacag	cccattcatc	aagtctttgc	agaaggcatt	2700
60	tccgtcggtc	gaggtggagt	cattgcaggt	cacaccaaat	gaccatgcaa	atgccagagc	2760
61	attttcgcac	ctggctacca	aattgatcga	gcaggagact	gacaaagaca	cactcatctt	2820
62	ggatatcggc	agtgcgcctt	ccaggagaat	gatgtctacg	cacaaatacc	actgcgtatg	2880
63	ccctatgcgc	agcgcagaag	accccgaaag	gctcgatagc	tacgcaaaga	aactggcagc	2940
64	ggcctccggg	aaggtgctgg	atagagagat	cgcaggaaaa	atcaccgacc	tgacagccgt	3000
65	catggctacg	ccagacgctg	aatctcctac	cttttgctg	catacagacg	tcacgtgtcg	3060
66	tacggcagcc	gaagtggccg	tataccagga	cgtgtatgct	gtacatgcac	caacatcgct	3120
67	gtaccatcag	gcgatgaaag	gtgtcagaac	ggcgtattgg	attgggtttg	acaccacccc	3180
68	gtttatgttt	gacgcgctag	caggcgcgta	tccaacctac	gccacaaact	gggccgacga	3240
69	gcaggtgtta	caggccagga	acataggact	gtgtgcagca	tccttgactg	agggaagact	3300
70	cggcaaactg	tccattctcc	gcaagaagca	attgaaacct	tgcgacacag	tcattgttctc	3360
71	ggtaggatct	acattgtaca	ctgagagcag	aaagtactctg	aggagctggc	acttacccctc	3420
72	cgtattccac	ctgaaaggta	aacaatcctt	tacctgtagg	tgcgatacca	tcgtatcatg	3480
73	tgaagggtag	gtagttaaga	aaatcactat	gtgccccggc	ctgtacggta	aaacggtagg	3540
74	gtacgccgtg	acgtatcacg	cggagggtat	cctagtgtgc	aagaccacag	acactgtcaa	3600
75	aggagaaaga	gtctcattcc	ctgtatgcac	ctacgtcccc	tcaaccatct	gtgatcaaat	3660
76	gactggcata	ctagcgaccg	acgtcacacc	ggaggacgca	cagaagttgt	tagtgggatt	3720
77	gaatcagagg	atagttgtga	acggaagaac	acagcgaaac	actaacacga	tgaagaacta	3780
78	tctgcttccg	attgtggccg	tcgcatttag	caagtggcg	agggaataca	aggcagacct	3840
79	tgatgatgaa	aaacctctgg	gtgtccgaga	gaggtcactt	acttgctgct	gcttggtgggc	3900
80	atttaaaacg	aggaagatgc	acaccatgta	caagaaacca	gacaccacga	caatagttaa	3960
81	ggtgccttca	gagtttaact	cgttcgtcat	cccagacctc	tgggtctacag	gcctcgcaat	4020
82	cccagtcaga	tcacgcatta	agatgctttt	ggccaagaag	accaagcgag	agttaatacc	4080
83	tgttctcgac	gcgtcgtcag	ccagggtatg	tgaacaagag	gagaaggaga	ggttgagggc	4140
84	cgagctgact	agagaagcct	taccacccct	cgtccccatc	gcgcccggcg	agacgggagt	4200
85	cgctgacgtc	gacgttgaag	aactagagta	tcacgcaggt	gcaggggtcg	tggaacacc	4260
86	tcgcagcgcg	ttgaaagtca	ccgcacagcc	gaacgcagta	ctactaggaa	attacgtagt	4320
87	tctgtccccg	cagaccgtgc	tcaagagctc	caagttggcc	cccgtgcacc	ctctagcaga	4380
88	gcaggtgaaa	ataataacac	ataacgggag	ggccggcggt	taccaggtcg	acggatatga	4440
89	cggcagggtc	ctactaccat	gtggatcggc	cattccggtc	cctgagtttc	aagcttttag	4500
90	cgagagcgcc	actatgggtg	acaacgaaag	ggagttcgtc	aacaggaaac	tataccatat	4560
91	tgccgttcac	ggaccgtcgc	tgaacaccga	cgaggagaac	tacgagaaag	tcagagctga	4620
92	aagaactgac	gccgagtacg	tgttcgacgt	agataaaaaa	tgctgcgtca	agagagagga	4680
93	agcgtcgggt	ttggtgttgg	tgggagagct	aaccaacccc	ccgttccatg	aattcgcccta	4740
94	cgaagggtcg	aagatcaggc	cgctcgccacc	atataagact	acagtagtag	gagtccttgg	4800

PAGE: 3

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/190,246

DATE: 02/01/2000
TIME: 14:24:12

Input Set: I190246.RAW

95	ggttccggga	tcaggcaagt	ctgctattat	taagagcctc	gtgaccaaac	acgatctggt	4860
96	caccagcggc	aagaaggaga	actgccagga	aatagttaac	gacgtgaaga	agcaccgcgg	4920
97	gaaggggaca	agtagggaaa	acagtgactc	catcctgcta	aacgggtgtc	gtcgtgccgt	4980
98	ggacatccta	tatgtggacg	aggttttgcg	ttgccattcc	ggtactctgc	tggccctaata	5040
99	tgctcttggt	aaacctcgga	gcaaagtggg	gttatgcgga	gaccccaagc	aatgcggtatt	5100
100	cttcaatatg	atgcagctta	aggtgaactt	caaccacaac	atctgcactg	aagtatgtca	5160
101	taaaagtata	tccagacgtt	gcacgcgtcc	agtcacggcc	atcgtgtcta	cgttgcacta	5220
102	cggaggcaag	atgcgcacga	ccaacccgtg	caacaaaccc	ataatcatag	acaccacagg	5280
103	acagaccaag	ccaagccag	gagacatcgt	gttaacatgc	ttccgaggct	gggcaaagca	5340
104	gctgcagttg	gactaccgtg	gacacgaagt	catgacagca	gcagcatctc	agggcctcac	5400
105	ccgcaaaggg	gtatacgccg	taaggcagaa	ggatgaatgaa	aatcccttgt	atgcccttgc	5460
106	gtcggagcac	gtgaatgtac	tgctgacgcg	cactgaggat	aggctgggtg	ggaaaacgct	5520
107	ggccggcgat	ccctggatta	aggtcctatc	aaacattcca	cagggttaact	ttacggccac	5580
108	attggaagaa	tggcaagaag	aacacgacaa	aataatgaag	gtgattgaag	gaccggctgc	5640
109	gcctgtggac	gcgttccaga	acaaagcgaa	cgtgtgttgg	gcgaaaagcc	tgggtgcctgt	5700
110	cctggacact	gccggaatca	gattgacagc	agaggagtgg	agcaccataa	ttacagcatt	5760
111	taaggaggac	agagcttact	ctccagtggg	ggccttgaat	gaaatttgca	ccaagtacta	5820
112	tggagttgac	ctggacagtg	gcctgttttc	tgccccgaag	gtgtccctgt	attacgagaa	5880
113	caaccactgg	gataacagac	ctgggtggaag	gatgtatgga	ttcaatgccg	caacagctgc	5940
114	caggctggaa	gctagacata	ccttcctgaa	ggggcagtg	catacgggca	agcaggcagt	6000
115	tatcgagaa	agaaaaatcc	aaccgctttc	tgtgctggac	aatgtaattc	ctatcaaccg	6060
116	caggctgccg	cacgccctgg	tggctgagta	caagacggtt	aaaggcagta	gggttgagt	6120
117	gctggtcaat	aaagtaagag	ggtaccacgt	cctgctgggt	agtgagtaca	acctggcttt	6180
118	gcctcgacgc	agggtcactt	ggttgtcacc	gctgaatgtc	acaggcgccg	ataggtgcta	6240
119	cgacctaat	ttaggactgc	cggtgacgc	cggcaggttc	gacttgggtc	ttgtgaacat	6300
120	tcacacggaa	ttcagaatcc	accactacca	gcagtgtgtc	gaccacgcca	tgaagctgca	6360
121	gatgcttggg	ggagatgcgc	tacgactget	aaaacccggc	ggcatcttga	tgagagctta	6420
122	cggatacgcc	gataaaatca	gcgaagccgt	tgtttcctcc	ttaagcagaa	agttctcgtc	6480
123	tgcaagagt	ttgcgcccgg	attgtgtcac	cagcaataca	gaagtgttct	tgctgttctc	6540
124	caactttgac	aacggaaaaga	gaccctctac	gctacaccag	atgaatacca	agctgagtgc	6600
125	cgtgtatgcc	ggagaagcca	tgacacgggc	cgggtgtgca	ccatcctaca	gagttaagag	6660
126	agcagacata	gccacgtgca	cagaagcggc	tgtggttaac	gcagctaacg	cccggtggaac	6720
127	tgtaggggat	ggcgtatgca	gggccgtggc	gaagaaatgg	ccgtcagcct	ttaagggagc	6780
128	agcaacacca	gtgggcacaa	ttaaaacagt	catgtgcggc	tcgtaccccg	tcatccacgc	6840
129	tgtagcgct	aattttctctg	ccacgactga	agcggaaggg	gaccgcgaat	tggccgctgt	6900
130	ctaccgggca	gtggccgccc	aagtaaacag	actgtcactg	agcagcgtag	ccatcccgc	6960
131	gctgtccaca	ggagtgttca	gcggcggaag	agataggctg	cagcaatccc	tcaaccatct	7020
132	attcacagca	atggacgcca	cggacgtga	cgtgaccatc	tactgcagag	acaaaagtgt	7080
133	ggagaagaaa	atccaggaag	ccattgacat	gaggacggct	gtggagtgtc	tcaatgatga	7140
134	cgtggagctg	accacagact	tggtagaggt	gcacccggac	agcagcctgg	tgggtcgtaa	7200
135	gggctacagt	accactgacg	ggctcgctgta	ctcgactttt	gaaggtagca	aattcaacca	7260
136	ggctgctatt	gatatggcag	agatactgac	gttgtggccc	agactgcaag	aggcaaacga	7320
137	acagatatgc	ctatacgcg	tgggcgaaac	aatggacaac	atcagatcca	aatgtccggt	7380
138	gaacgattcc	gattcatcaa	cacctcccag	gacagtgcgc	tgctgtgcc	gctacgcaat	7440
139	gacagcagaa	cggatcgccc	gccttaggtc	acaccaagtt	aaaagcatgg	tggtttgc	7500
140	atcttttccc	ctcccgaat	accatgtaga	tggggtgcag	aaggtaaagt	gcgagaaggt	7560
141	tctctgttc	gacccgacgg	taccttcagt	ggttagtccg	cggaagtatg	ccgcatctac	7620
142	gacggaccac	tcagatcggt	cgttacgagg	gtttgacttg	gactggacca	ccgactcg	7680
143	ttccactgcc	agcgatacca	tgctcgctacc	cagtttgacg	tcgtgtgaca	tcgactcgat	7740
144	ctacgagcca	atggctccca	tagtagtgac	ggctgacgta	cacctgaac	ccgcaggcat	7800

PAGE: 4

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/190,246

DATE: 02/01/2000
 TIME: 14:24:12

Input Set: I190246.RAW

145	cgcggaacctg	gcggcagatg	tgcacctga	acccgcagac	catgtggacc	tcgagaaccc	7860
146	gattcctcca	ccgcgcccga	agagagctgc	ataccttgcc	tcccgcgcgg	cggagcgacc	7920
147	ggtgcggcg	ccgagaaagc	cgacgcctgc	cccaaggact	gcgttttagga	acaagctgcc	7980
148	tttgacgttc	ggcgactttg	acgagcaaga	ggtcgatgcg	ttggcctccg	ggattacttt	8040
149	cggagacttc	gacgacgtcc	tgcgactagg	ccgcgcgggt	gcataatatt	tctcctcgga	8100
150	cactggcagc	ggacattttac	aacaaaaatc	cgttaggcag	cacaatctcc	agtgcgcaca	8160
151	actggatgcg	gtccaggagg	agaaaatgta	cccgcacaaa	ttggatactg	agagggagaa	8220
152	gctgttgctg	ctgaaaatgc	agatgcaccc	atcggaggct	aataagagtc	gataccagtc	8280
153	tcgcaaagtg	gagaacatga	aagccacggg	ggtggacagg	ctcacatcgg	gggccagatt	8340
154	gtacacggga	gcggacgtag	gccgcatacc	aacatacgcg	gttcgggtacc	cccgcctcgt	8400
155	gtactccctt	accgtgatcg	aaagattctc	aagccccgat	gtagcaatcg	cagcgtgcaa	8460
156	cgaataccta	tccagaaatt	acccaacagt	ggcgctgtac	cagataacag	atgaatacga	8520
157	cgcatacttg	gacatggttg	acgggtcgga	tagttgcttg	gacagagcga	cattctgccc	8580
158	ggcgaagctc	cggtgtacc	cgaaacatca	tgcgtaccac	cagccgactg	tacgcagtgc	8640
159	cgtcccgta	ccctttcaga	acacactaca	gaacgtgcta	gcggccgcca	ccaagagaaa	8700
160	ctgcaacgtc	acgcaaatgc	gagaactacc	caccatggac	tcggcagtg	tcaacgtgga	8760
161	gtgcttcaag	cgctatgcct	gtcccgga	atattgggaa	gaatatgcta	aacaacctat	8820
162	ccggataacc	actgagaaca	tactaccta	tgtgacaaa	ttgaaaggcc	cgaagctgc	8880
163	tgccttgctc	gctaagaccc	acaacttggg	tccgtgcag	gaggttccca	tggacagatt	8940
164	cacggtcgac	atgaaacgag	atgtcaaagt	cactccaggg	acgaaacaca	cagaggaaag	9000
165	acccaaagt	caggtaattc	aagcagcgga	gccattggcg	accgcttacc	tgtgcggcat	9060
166	ccacaggga	ttagtaagga	gactaaatgc	tgtgttacgc	cctaacgtgc	acacattggt	9120
167	tgatatgtcg	gccgaagact	ttgacgcgat	catcgctct	cacttccacc	caggagaccc	9180
168	ggttctagag	acggacattg	catcattcga	caaaagccag	gacgactcct	tggctcttac	9240
169	aggtttaatg	atcctcgaag	atctaggggt	ggatcagtag	ctgctggact	tgatcgaggc	9300
170	agcctttggg	gaaatatcca	gctgtcacct	accaactggc	acgcgcttca	agttcggagc	9360
171	tatgatgaaa	tcgggcatgt	ttctgaactt	gtttattaac	actgttttga	acatcaccat	9420
172	agcaagcagg	gtactggagc	agagactcac	tgactccgcc	tgtgcggcct	tcatcggcga	9480
173	cgacaacatc	gttcacggag	tgatctccga	caagctgatg	gcggagaggt	gcgcgtcgtg	9540
174	ggtcaacatg	gaggtgaaga	tcattgacgc	tgtcatgggc	gaaaaacccc	catatttttg	9600
175	tgggggattc	atagtttttg	acagcgtcac	acagaccgcc	tgcctgtttt	cagacccact	9660
176	taagcgctcg	ttcaagttgg	gtaagcgcgt	aacagctgaa	gacaagcagg	acgaagacag	9720
177	gcgacgagca	ctgagtgcag	agggttagcaa	gtggttccgg	acaggcttgg	gggccgaact	9780
178	ggaggtggca	ctaactcta	ggtatgaggt	agagggctgc	aaaagtatcc	tcatagccat	9840
179	ggccaccttg	gcgagggaca	ttaaggcgtt	taagaaattg	agaggacctg	ttatacacct	9900
180	ctacggcggt	cctagattgg	tgcgttaata	cacagaattc	tgattggatc	atagcgcaact	9960
181	attataggat	ccgcgcgcgc	gaattcggca	cgagtaacaa	tggagttgct	aatcctcaaa	10020
182	gcaaatgcaa	ttaccacaat	cctcactgca	gtcacatttt	gttttgcttc	tgggtcaaac	10080
183	atcactgaag	aattttatca	atcaacatgc	agtgcagtta	gcaaaggcta	tcttagtgct	10140
184	ctgagaactg	gttgggtatac	cagtgttata	actatagaat	taagtaatat	caaggaaaat	10200
185	aagtgtaatg	gaacagatgc	taaggtaaaa	ttgataaaa	aagaattaga	taaatataaa	10260
186	aatgctgtaa	cagaattgca	gttgctcatg	caaagcacac	cagcagcaaa	caatcgagcc	10320
187	agaagagAAC	taccaaggtt	tatgaattat	acactcaaca	atgccaaaaa	aaccaatgta	10380
188	acattaagca	agaaaaggaa	aagaagattt	cttgggtttt	tgttaggtgt	tggatctgca	10440
189	atcgccagtg	gcgttgctgt	atctaaggtc	ctgcacctag	aaggggaagt	gaacaagatc	10500
190	aaaagtgtc	tactatccac	aaacaaggct	gtagtcagct	tatcaaatgg	agttagtgtc	10560
191	ttaaccagca	aagtgttaga	cctcaaaaac	tatatagata	aacaattgtt	acctattgtg	10620
192	aacaagcaaa	gctgcagcat	atcaaatata	gaaactgtga	tagagttcca	acaaaagaac	10680
193	aacagactac	tagagattac	cagggaattt	agtgttaatg	caggtgtaac	tacacctgta	10740
194	agcaacttaca	tgttaactaa	tagtgaatta	ttgtcattaa	tcaatgatata	gcctataaca	10800

PAGE: 5

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/190,246

DATE: 02/01/2000

TIME: 14:24:12

Input Set: I190246.RAW

195	aatgatcaga	aaaagttaat	gtccaacaat	gttcaaatag	ttagacagca	aagttactct	10860
196	atcatgtcca	taataaaaaga	ggaagtctta	gcatatgtag	tacaattacc	actatatggg	10920
197	gttatagata	caccctgttg	gaaactacac	acatccccctc	tatgtacaac	caacacaaaa	10980
198	gaagggtcca	acatctgttt	aaCaagaact	gacagaggat	ggtactgtga	caatgcagga	11040
199	tcagtatctt	tcttcccaca	agctgaaaca	tgtaaagtcc	aatcaaactcg	agtattttgt	11100
200	gacacaatga	acagtttaac	attaccaagt	gaaataaatc	tctgcaatgt	tgacatatcc	11160
201	aacccccaaat	atgattgtaa	aattatgact	tcaaaaacag	atgtaagcag	ctccgttatc	11220
202	acatctctag	gagccattgt	gtcatgctat	ggcaaaaacta	aatgtacagc	atccaataaaa	11280
203	aatcgtggaa	tcataaaagac	attttctaac	gggtgcgatt	atgtatcaaa	taaagggatg	11340
204	gacactgtgt	ctgtaggtaa	cacattatat	tatgtaaata	agcaagaagg	taaaagtctc	11400
205	tatgtaaaag	gtgaaccaat	aataaaatttc	tatgacccat	tagtattccc	ctctgatgaa	11460
206	tttcatgcat	caatatctca	agtcaacgag	aagattaacc	agagcctagc	atctattcgt	11520
207	aaatccgatg	aattattaca	taatgtaaat	gctggtaaata	ccaccacaaa	tatcatgact	11580
208	tgataatgag	gatccagatc	ccgggttaatt	aattgaatta	catccctacg	caaacgtttt	11640
209	acggccgccc	gtggcgccc	cgcccgccg	cccgtccttg	gccgttgccg	gccactccgg	11700
210	tggtcccgct	cgtccccgac	ttccaggccc	agcagatgca	gcaactcatc	agcgccgtaa	11760
211	atgcgctgac	aatgagacag	aacgcaattg	ctcctgctag	gcctcccaaa	caaagaaga	11820
212	agaagacaac	caaaccaaa	ccgaaaacgc	agcccaagaa	gatcaacgga	aaaacgcagc	11880
213	agcaaaaagaa	gaaagacaag	caagccgaca	agaagaagaa	gaaacccgga	aaaagagaaa	11940
214	gaatgtgcat	gaagattgaa	aatgactgta	tcttcgtatg	cggctagcca	cagtaacgta	12000
215	gtgtttccag	acatgtcggg	caccgcacta	tcatgggtgc	agaaaatctc	gggtggtctg	12060
216	ggggccttcg	caatcggcgc	tatcctgggtg	ctggttggtg	tcacttgcat	tggtcctccg	12120
217	agataagtta	gggtaggcaa	tggtattgat	atagcaagaa	aattgaaaac	agaaaaagtt	12180
218	agggtaaagca	atggcatata	accataactg	tataacttgt	aacaaagcgc	aacaagacct	12240
219	gcgcaattgg	ccccgtggtc	cgctcacgg	aaactcgggg	caactcatat	tgacacatta	12300
220	attggcaata	attggaagct	tacataagct	taattcgacg	aataattgga	tttttatttt	12360
221	attttgcaat	tggtttttta	tattttccaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	12420
222	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaacta	gcgggtcggc	atggcatctc	12480
223	cacctcctcg	cggtcggacc	tggtcatccg	aaggaggacg	cacgtccact	cggatggcta	12540
224	aggagagat	ccagatctgc	tgtgccttct	agttgccagc	catctgttgt	ttgcccctcc	12600
225	cccgtgcctt	ccttgaccct	ggaagggtgc	actcccactg	tcctttccta	ataaaatgag	12660
226	gaaattgcat	cgcattgtct	gagtaggtgt	cattctattc	tggtgggtgg	ggtggggcag	12720
227	gacagcaagg	gggaggattg	ggaagacaat	agcaggcatg	ctggggatgc	ggtgggctct	12780
228	atgggtaccc	aggtgctgaa	gaattgaccc	ggttcctcct	gggccagaaa	gaagcaggca	12840
229	catccccctc	tctgtgacac	accctgtcca	cgccccctgt	tcttagttcc	agccccactc	12900
230	ataggacact	catagctcag	gagggtcccg	ccttcaatcc	caccgcgtaa	agtacttgga	12960
231	gcggtctctc	cctccctcat	cagcccacca	aaccaaacct	agcctccaag	agtgggaaga	13020
232	aattaaagca	agataggcta	ttaagtgcag	aggagagaaa	aatgcctcca	acatgtgagg	13080
233	aagtaatgag	agaaatcata	gaatttcttc	cgttccctcg	ctcactgact	cgtgcgctc	13140
234	ggtcgttcgg	ctgcggcgag	cggtatcagc	tactcaaaag	gcggtataac	ggttatccac	13200
235	agaatcaggg	gataacgcag	gaaagaacat	gtgagcaaaa	ggccagcaaa	agccaggcaa	13260
236	ccgtaaaaag	gccgcgttgc	tggtgttttt	ccataggctc	cgccccctcg	acgagcatca	13320
237	caaaaatcga	cgtcgaagtc	agagggtggc	aaacccgaca	ggactataaa	gataccaggc	13380
238	gtttccccct	ggaagctccc	tctgtcgtct	tcctgttccg	accctgccgc	ttaccggata	13440
239	cctgtccgcc	tttctccctt	cgggaagcgt	ggcgttttct	catagctcac	gctgtaggta	13500
240	tctcagttcg	gtgtaggctg	ttcgtcccaa	gctgggtgtg	gtgcacgaac	ccccggttca	13560
241	gcccagaccg	tgcgccttat	ccggtaacta	tctgtttgag	tccaacccgg	taagacacga	13620
242	cttatcgcca	ctggcagcag	ccactggtaa	caggattagc	agagcgagggt	atgtaggcgg	13680
243	tgctacagag	ttcttgaagt	ggtggcctaa	ctacggctac	actagaagaa	cagtatttgg	13740
244	tatctgcgct	ctgctgaagc	cagttacctt	cggaaaaaga	gttggtagct	cttgatccgg	13800

PAGE: 6

VERIFICATION SUMMARY
PATENT APPLICATION US/09/190,246

DATE: 02/01/2000
TIME: 14:24:12

Input Set: **I190246.RAW**

Line ? Error/Warning

Original Text
